

Table CT3. Total End-Use Energy Consumption Estimates, Selected Years, 1960-2016, Virginia

Year	Coal Thousand Short Tons	Natural Gas ^a Billion Cubic Feet	Petroleum							Hydro- electric Power ^{f,g} Million Kilowatt- hours	Biomass		Geo- thermal ^g	Solar ^{g,j}	Retail Electricity Sales	Net Energy ^{g,k}	Electrical System Energy Losses ^l	Total ^{g,k}
			Distillate Fuel Oil	HGL ^b	Jet Fuel ^c	Motor Gasoline ^d	Residual Fuel Oil	Other ^e	Total		Wood and Waste ^{g,h}	Losses and Co- products ⁱ			Million Kilowatt- hours			
1960	5,879	65	14,140	1,146	4,441	31,077	17,695	9,512	78,012	79	--	--	--	--	11,561	--	--	--
1970	4,650	132	23,919	2,412	11,093	48,684	16,288	10,187	112,584	41	--	--	--	--	29,816	--	--	--
1980	3,731	156	23,806	3,131	12,279	59,035	10,065	8,113	116,429	27	--	--	--	--	48,369	--	--	--
1990	4,877	175	29,259	4,088	15,806	70,333	6,386	9,095	134,966	0	--	--	--	--	72,696	--	--	--
2000	3,508	232	38,697	6,097	9,943	85,628	6,522	8,968	155,857	13	--	--	--	--	96,715	--	--	--
2001	3,622	205	37,855	4,825	9,981	90,793	2,551	9,555	155,560	1	--	--	--	--	96,453	--	--	--
2002	3,459	223	36,840	5,345	9,955	91,548	1,597	7,835	153,120	2	--	--	--	--	100,619	--	--	--
2003	3,509	228	40,665	5,686	11,461	93,019	4,063	8,557	163,451	6	--	--	--	--	101,510	--	--	--
2004	3,323	229	44,413	5,452	16,754	94,821	4,591	9,124	175,155	(s)	--	--	--	--	105,424	--	--	--
2005	3,416	233	43,901	5,767	18,845	95,311	4,419	8,871	177,114	13	--	--	--	--	108,850	--	--	--
2006	3,094	214	45,476	5,171	18,809	97,076	2,858	8,670	178,060	6	--	--	--	--	106,721	--	--	--
2007	3,218	229	43,477	5,231	19,024	99,021	2,977	8,147	177,877	7	--	--	--	--	111,570	--	--	--
2008	3,200	222	38,449	5,338	16,520	95,463	3,016	6,306	165,093	9	--	--	--	--	110,106	--	--	--
2009	2,552	224	32,489	5,621	15,693	94,263	2,244	6,362	156,672	10	--	--	--	--	108,462	--	--	--
2010	2,857	236	32,671	5,673	12,707	96,413	2,313	^R 6,267	^R 156,045	12	--	--	--	--	113,806	--	--	--
2011	2,743	231	31,915	5,566	12,767	90,404	2,124	^R 6,022	^R 148,798	11	--	--	--	--	110,228	--	--	--
2012	2,524	220	32,340	4,760	16,877	92,643	1,929	^R 5,379	^R 153,928	12	--	--	--	--	107,795	--	--	--
2013	2,422	247	32,423	5,842	17,653	92,808	1,210	^R 4,806	^R 154,742	5	--	--	--	--	110,512	--	--	--
2014	2,194	261	33,430	5,985	13,232	94,838	815	^R 4,933	^R 153,232	10	--	--	--	--	112,098	--	--	--
2015	1,758	^R 257	32,260	6,038	11,194	^R 95,461	583	^R 5,676	^R 151,213	12	--	--	--	--	112,009	--	--	--
2016	1,663	249	31,489	5,563	10,841	96,862	810	5,525	151,090	9	--	--	--	--	112,281	--	--	--

Trillion Btu

1960	149.0	66.9	82.4	4.5	24.0	163.2	111.2	56.1	441.5	0.8	56.1	NA	NA	NA	39.4	753.8	97.6	851.4
1970	110.7	135.7	139.3	9.2	61.9	255.7	102.4	60.5	629.0	0.4	55.5	NA	NA	NA	101.7	1,033.0	246.1	1,279.1
1980	92.8	158.5	138.7	11.7	68.8	310.1	63.3	49.2	641.8	0.3	76.3	NA	NA	NA	165.0	1,134.5	396.5	1,531.0
1990	123.8	182.0	170.4	15.3	88.5	369.5	40.1	56.7	740.5	0.0	83.8	0.2	0.1	0.1	248.0	1,379.9	583.8	1,963.7
2000	93.7	240.1	225.2	22.8	56.4	446.5	41.0	55.2	847.0	0.1	100.4	0.1	0.4	0.1	330.0	1,611.5	775.4	2,386.9
2001	96.2	212.5	220.3	18.2	56.6	473.4	16.0	58.8	843.3	(s)	75.0	0.1	0.4	0.1	329.1	1,556.6	766.4	2,323.0
2002	90.9	231.2	214.4	20.0	56.4	477.1	10.0	48.2	826.1	(s)	55.8	0.1	0.5	0.2	343.3	1,547.9	806.2	2,354.1
2003	93.5	236.2	236.6	21.5	65.0	484.0	25.5	52.7	885.4	0.1	73.2	(s)	0.6	0.2	346.4	1,635.3	790.9	2,426.2
2004	88.4	235.7	258.4	20.7	95.0	493.2	28.9	56.6	952.7	(s)	79.9	0.0	0.7	0.2	359.7	1,717.2	833.2	2,550.4
2005	89.9	242.6	255.4	21.8	106.9	495.4	27.8	55.3	962.6	0.1	97.1	0.0	0.8	0.3	371.4	1,764.7	858.8	2,623.5
2006	81.2	221.4	263.9	19.4	106.6	503.9	18.0	54.0	965.9	0.1	91.6	0.0	0.9	0.3	364.1	1,725.5	842.0	2,567.5
2007	84.5	237.9	251.5	19.7	107.9	510.5	18.7	50.6	958.9	0.1	89.9	0.0	1.0	0.4	380.7	1,753.2	891.1	2,644.4
2008	83.8	230.7	222.2	20.3	93.7	489.3	19.0	39.1	883.5	0.1	89.6	0.0	1.2	0.5	375.7	1,664.9	881.5	2,546.4
2009	66.6	232.2	187.8	21.3	89.0	480.8	14.1	39.8	832.8	0.1	82.9	0.0	1.4	0.5	370.1	1,586.4	844.2	2,430.7
2010	75.0	241.7	188.7	21.8	72.0	489.6	14.5	R 39.8	R 826.4	0.1	R 74.3	0.0	1.6	0.5	388.3	R 1,607.8	882.3	R 2,490.1
2011	72.7	237.2	184.3	21.3	72.4	458.2	13.4	R 38.6	R 788.1	0.1	R 72.3	0.0	1.8	0.5	376.1	R 1,548.8	837.3	R 2,386.1
2012	68.9	228.0	186.6	18.3	95.7	469.1	12.1	R 34.5	R 816.3	0.1	R 72.1	0.0	1.7	0.6	367.8	R 1,555.5	792.7	R 2,348.2
2013	66.0	256.0	187.0	22.4	100.1	469.8	7.6	R 30.5	R 817.4	(s)	R 81.8	0.0	1.7	0.7	377.1	R 1,600.6	817.4	R 2,418.0
2014	60.2	273.5	192.8	23.0	75.0	479.9	5.1	R 31.2	R 807.0	0.1	R 86.2	2.3	1.7	0.7	382.5	R 1,614.0	822.9	R 2,436.9
2015	48.9	R 269.6	186.1	23.2	63.5	R 483.0	3.7	R 36.2	R 795.6	0.1	R 84.7	2.6	1.7	0.8	382.2	R 1,586.1	789.4	R 2,375.5
2016	46.5	261.3	181.6	21.3	61.5	490.0	5.1	35.2	794.7	0.1	77.1	1.3	1.7	0.9	383.1	1,566.8	765.2	2,332.0

^a Natural gas as it is consumed; includes supplemental gaseous fuels that are commingled with natural gas.

^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."

^d Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^e Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.

^f Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

^g There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

^h Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

ⁱ Losses and co-products from the production of fuel ethanol.

^j Solar thermal and photovoltaic energy. Includes a small amount of wind energy consumed by commercial and industrial utility-scale facilities.

^k Beginning in 2009, includes wind energy consumed by the commercial and industrial sectors. For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column. Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

^l Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses. Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

-- = Not applicable. NA = Not available.

Where shown, R = Revised data and (s) = Physical unit value less than 0.5 or Btu value less than 0.05.

Notes: Total end-use consumption estimates are the sum of the consumption estimates for the residential, commercial, industrial, and transportation sectors. • Totals may not equal sum of components due to independent rounding. • The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.

Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.